FEDOROVA, Ye.P.; POLYANTSEVA, A.I.; RAYEVA, K.S.; BITKOVA, S.I.

Occurrence of myocardial infarct among the population of one of the Moscow districts. Sov.med. 26 no.1:12-17 Ja '63.

(MTRA 16:4)

1. Iz Instituta terapii (dir. - deystvitel'nyy chlen AMN SSSR prof. A.L. Myasnikov) AMN SSSR.

(MOSCOW - HEART - INFARCTION)

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KARELIN, A.A.; POLYANTSEVA, L.R.

Detection of transamidinase in the blood serum and urine in various kidney diseases. Vop. med. khim. 11 no.2:97-99 Mr-Ap 65. (MIRA 18:10)

l. Kafedra biokhimii i kafedra terapii sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo meditsinskogo instituta.

ANDROSOVA, S.O.; APROSINA, Z.G.; BEZRODNYKH, A.A.; VERMEL', A.Ye.;

VINOGRADOVA, O.M.; LEVITSKIY, E.R.; MAKARENKO, I.I.;

MAKSHANOV, D.A.; LOLYANTSEYA, L.R.; SUMAROKOV, A.V.;

SHATALOV, N.N.; SHAPIRO, L.A.; TAREYEV, Ye.M., prof.,

red.; MEL'NIKOV, Ye.B., red.

[Occupational diseases] Professional'nye bolezni; uchebnoe posoble dlia studentov sanitarno-gligienicheskikh fakul'tetov. Pod red. E.M. Tareeva. Moskva, 1963 p. 223 p.

(MIRA 16:6)

1. Moscow. Pervyy meditsinskiy institut. 2. AMN SSSR (for Tareyev).

(OCCUPATIONAL DISEASES)

POLYANTSEVA, L.R.; YERMOLENKO, V.M.

Aldosterone and spirolactones in clinical treatment of internal diseases; a survey of the literature and an analysis of our own observations. Sov. med. 27 no.12:42-51 D.63 (MIRA 17:4)

l. Iz kafedry propedevticheskoy i professional noy terapii sanitarno-gigiyenicheskogo fakul teta (zav. - deystvitel nyy chlen AMN SSSR prof. Ye.M. Tareyew) I Moskovskogo meditsinskogo instituta imeni Sechenova i 24-y Moskovskoy gorodskoy klini-cheskoy bol nitsy (glavnyy vrach V.P. Uspenskiy).

edonografia krimue przedene pomoże denom indome in dozen konzerskim to dina zwa

POLYANTSEVA, L.R.; MOZEL', A.I.

Hypothiazide as a diuretic and hypotensive agent. Sov. med. 25 no.2:23-29 F 162. (MIRA 15:3)

1. Iz kafedry obshchey terapii i profilakticheskikh zabolevaniy (zav.-deystvitel'nyy chlen AMN SSSR prof. Ye.M. Tareyev) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina teditasinskogo instituta imeni Sechenova i gorodskoy bol'nitsy No. 66 (glavnyy vrach L.I. Sazanova).

(THIADIAZINE)

TAREYEV, Ye.M.; SUNA, V.V.; POLYANTSLVA. L.R.

Some problems in the pathogenesis and treatment of nephritis (Experimental data). Vest. AMN SSSR 16 no.12:3-9 161.

(KIDNEYS_DISEASES)

(KIDNEYS_DISEASES)

POLYANTSEVA, L.R.

Clinical testing of a new diuretic chlorothiazide (chlorurite).

Sov.med. 24 no.9:105-109 S 160. (MIRA 13:11)

1. Iz kafedry obshchey i gospital'noy terapii (zav. - deystvitel'nyy chien AMN SSSR prof. Ye.M. Tareyev) sanitarno-gigiyenicheskogo
fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M. Sechenova.

(CHLOROTHIAZIDE)

POLYANTSEVA, L.R.; ROGOV, A.A.

Effect of cortisone on the activity of succinic dehydrogenase in the kidneys in experimental cytotoxic nephritis. Biul..eksp. biol.i mad. 50 no.9:61-6/, S '60. (M.RA 13:11)

1. Iz kafedry obshchey i gospital'noy terapii sanitarno-gigiyeniche-skogo fakul'teta (zav. -deystvitel'nyy chlen AMN SSSR Ye.M.Tareyev) i iz TSentral'noy nauchno-issledovatel'skoy laboratorii imeni S.I. Chechulinn (zav. - kandidat meditsinskikh nauk A.S.Chechulin) pri I Moskovskom ordena Lenina institute imeni I.M.Sechenova.

(KIDNEYS-DISEASES) (CORTISONE)

(SUCCINIC DEHYDROGENASE)

SURA, V.V., kand.med.nauk; POLYANTSEVA, L.R.

On lesions of the kidneys in diabetes mellitus. Sov.med. 23 no.9:12-18 S'59.

1. Iz obshchey i gospital'noy terapevticheskoy kliniki (zav. - deystvitel'nyy chlen ANN SSSR prof. Ye.M. Tareyey) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(DIABTES MELLITUS compl.)

(KIDNEY DISEASES etiol.)

POLYANTSEVA, L.R. (Moskva)

Characteristics of the course of experimental cytotoxic nephritis under the influence of steroid hormones. Pat. fiziol. i eksp. terap. 6 no.1:63-69 Ja-F '62. (MIRA 15:3)

1. Iz kafedry obshchey i gospital'noy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof. Ye.M. Tareyev) sanitarno-gigiyenicheskogo fakul'teta i Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

(STEROID HORMONES) (KIDNEYS—DISEASES)

大约12年18日 1915年 19

POLYANTSEVA, L.R.

The use of ACTH and steroid hormones in nephrities; survey of the literature with an analysis of personal observations. Sov. med. 24 no. 10:73-82 0 60. (MIRA 13:12)

1. Iz kafedry obshchey i gospital'noy terapii (zav. - deystvitel' nyy chlen AMN SSSR prof. Ye.M. Tareyev) Sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(KIDNEYS-DISEASES) (ACTH) (STEROIDS)

PCLYSWISEV. N. .., kand. veterin. rank; FOLIANISEVA, H.A., aspirant

#rtificially controlled sterilization of young pigs by ultrasonic
waves. Veterinariia 41 no.12:47-49 D 164. (MIRA 18:9)

1. Donskoy sel'skokhozyaystvennyy institut.

POLYARKOV, S. G.

USSR/Physics - Solar Energy, Utilization

Jun 52

"Solar Equipment," M. V. Kirpichev and V. A. Baum

Nauk i Zhizn!, Vol 19, No 6 pp 11-13

Soviet scientists B. P. Veynberg, K. G. Trofimov, B. V. Petukhov, S. G. Polyarkov, G. I. Markov, R. R. Aparisi, and other solar technicians are busy constructing solar water boilers, distillators of sea water, solar kitchens, reflectors for medical purposes, steam kettles, etc. The Heliolaboratory of the Power Engineering Inst Krzhizhanovskiy, Acad Sci USSR, designed a paraboloid mirror of aluminum of 1.2 m diameter and a parabolic-cylindrical mirror with an area of 12 m² for solar boilers, for use in the Main Turkmen Canal region.

RojAM

Soloveva (Mme A. I.) & Polyarkova (Mme L. V.). Burt Xhongarhuka. [Wilt of Cotton.]—Tashkent Agricultural Publishing Department, Usbekistan Soviet Republic, 63 pp., 12 figs., 5 graphs, 1940. [Received January, 1947.]

In this study on cotton wilt (Verticillium dahline) [R.A.M., xvii, p. 814; xxvi, p. 460] the authors state that the widespread and increasing occurrence of the disease causes serious damage to the cotton crops of the U.S.S.R., the losses in the non-resistant varieties being as high as 40 to 60 per cent. Examinations showed that V. dahline inhabits the soil, living on organic matter. Temperatures of ~30° and 80° C. did not inactivate the fungus, while growth and germination of the microsclerotia were observed at temperatures ranging from 7° to 32° at 20 per cent. soil humidity, though increased moisture greatly stimulated their growth: V.dahline attacks 27 different plants in Central Asia; cereals were found to be immune. The transmission of the disease by seeds appeared to be negligible.

Investigations during 1933-4 showed that lucerne is an extremely powerful wilt-reducing factor. Cotton grown in fields previously planted with lucerne showed only 6-2, 2-56, and 3 per cent, infection, whereas the controls showed 57-3, 50-6, and 43-8 per cent, respectively. In 1937 the variety 36M2 showed 27-5 per cent, infection after the use of fertilizers compared with 48 per cent, for the control. Dung had no marked effect on resistant varieties, non-resistant ones showed some increase of wilt after its application. The varieties Vakkona, 0208, 8797, 0214, and 4268 are resistant.

Raschety teplovykh protsessov

pri vyskoi temperature (Calculations of thermal processes at high temperatures), Izd. Byuro Novoi Tekh. bez Goroda, Moscow, 1947, 68 pp. 16 references.

Reviewed in Uspekhi Fiz. Nauk, Vol. 34, 1948, pp. 462-463.

POLYARNYI, A.I. and ZEL'DOVICH, Ya, B.

POLYARUSH, Yevtikhiy Ivanovich; PETROV, V.F., otv, red.; PYATAYEVA, M.F., red.izd-va; FROLOV, P.M., tekhn.red.

> [Sugar cane and its cultivation in the southern part of Central Asia] Sakharnyi trostnik i ego kul'tura na iuge Srednei Azii. Stalinabad, Izd-co Akad.nauk Tadkzh.SSR, 1958. 110 p. (Akademiia nauk Tadzhikskoi SSR. Stalinabad. Trudy, vol.105). (MIRA 12:12)

(Soviet Central Asia -- Sugar cane)

POLYARUSH, Ye.; SOLOMONOV, Sh.

Scientific ties between the Economics Section of the Academy of Sciences of the Tajik 5.S.R. and the regional economic council.

Vop. ekon. no.11:157-158 N '57. (MIRA 11:2)

(Tajikistan--Economic conditions)

POLYARUSH, Ve.; SOLOMONOV, Sh.; STARETS, R., red.; POLTORAK, I.,

tokmorred.

[Arometic plents of Tajikistan] Efiromeslichnye Tadzhikistana.

Stelinabed, Tadzhikgosizdat, 1959. 46 p.

(MIRA 14:3)

(Tajikistan—Arometic plents)

Protecting shaft compartments in shaft bottom. Bezop.truda v pr 3 no.7:34 Jl '59. (Mine hoisting)	
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ACC NR: AP6025885

SOURCE CODE: UR/0292/66/000/005/0002/0006

AUTHOR: Urusov, I. D. (Doctor of technical sciences); Polyashov, L. 1. (Engineer)

ORG: none

TITLE: Steady-state processes in a synchronous generator supplying a pulsed load

SOURCE: Elektrotekhnika, no. 5, 1966, 2-6

TOPIC TAGS: synchronous generator, pulsed load

ABSTRACT: Operation of a synchronous generator supplying a periodically-discharging-capacitor load is analyzed theoretically. Differential equations for stator and rotor circuits and flux linkages were solved on a digital computer with these results: (1) Stator current contains 3rd, 5th, 7th ... and rotor current, 6th, 12th, 18th... harmonics; (2) Higher harmonic amplitudes are strengthened due to mutual-induction coupling among stator windings; (3) As the currents and voltages of a salient-pole generator have strong higher harmonics (3rd, 111%; 9th, 31.6%), connection of a special outside reactance is recommended for their reduction; (4) In a nonsalient-pole generator, voltage and current shapes strongly depend on the discharge phase and capacitance; however, the effective value of the higher harmonics varies but affected by the stator higher harmonics caused by the nature of load.

Card 1/2

UDC: 621.313.322.001.1

POLUKHIN, V.P.; SKORUPSKIY, V.I.; POLYASHOV, V.S.; KALASHNIKOV, P.P.

Optimal hardness and the elastic deformation of rolls on four-high mills. Izv. vys. ucheb. zav.; chern. met. 8 no.12 78-84 '65 (MIRA 18:1)

1. Moskovskiy institut stali i splavov.

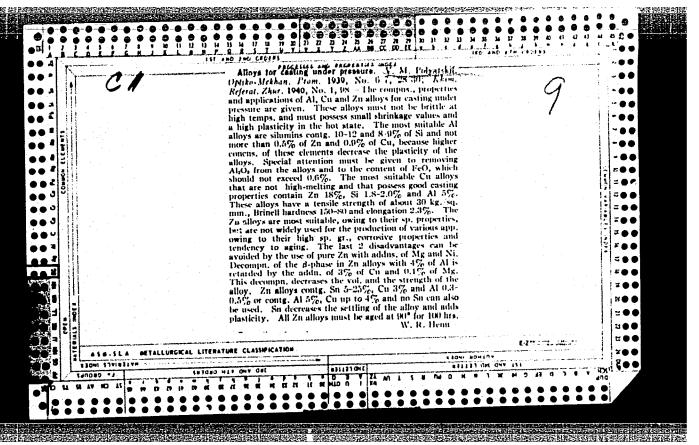
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UTHOR: Tselikov, A. I.; Polukhin,	V. P.; Polyashov, V. S.; Meyerovich, I. M. B
TITLE: Increasing the stiffness of improvement in precision of the sheet	rolling mill housings in connection with
SOURCE: Stal', no. 7, 1965, 622-62)
TOPIC TAGS: rolling mill, elastic	deformation, mathematical analysis, pressure , housing
ABSTRACT: The stiffness of rolling tive elastic deformations of the va of improving the housing stiffness. four-high mill of simple design, us four-high mill of simple design, us	g mill housings is analyzed in terms of the addi- arious elements of the housing, for the purpose . Experiments were conducted on a contemporary sing a 1700 type housing, with working rolls of ls of 1700 mm diameter; the maximal tolerance for
The same of the metal on the to-	ls of 1700 mm diameter; the maximum of 1700 mm diameter; the maximum of the elastic deswars 2100 T. Data are given for the elastic dethe mill (measured by a strain gauge) as a function shown for the force distribution acting on the

L 61914-65		
sure and the housing pre the elastic deformations These were summed to giv sure. Mechanical formul equation is given for th elastic deformation of t increasing the precision in production. Orig. ar	Also, the pressure acting o yzed and presented; this was assure was determined. Experi of the housing elements and the total housing deformations are presented, incorporation coefficient of stiffness in the housing elements. It was of the rolling process should has: 8 figures, 4 tables.	subtracted from the total pres- mental data are presented for compared with calculated values. on as a function of mill pres- ng the mill variables, and an terms of the pressure and concluded that this method of d result in improved economy.
Steel and Alloys)		
Steel and Alloys) SUBMITTED: 00	ENCL: 00	SUB CODE: IE MM
Steel and Alloys)	ENCL: 00 OTHER: 000	SUB CODE: IE, MM

POLYASHUK, V.A., inzh.

Boring blast holes of small diameter with the SVB-2 machine.
Sbor. trud. NIIZHelezobetona no.8:68-78 *63 (MIRA 18:1)

description of the state of the	POLY/TSHINS, B.M.	C.1.A.	
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YAVORSKIY, N.A.; POLYARUSH, Ye.F.; POGULYAUKO, N.M.

X-ray diagnosis of fallible anastomoses following resection of the stomach. Klin. khir. no.3:75-77 '65. (MIRA 18:8)

l. Rentgenologicheskoye otdeleniye (zav. - N.A.Yaverskiy) Vinnitskoy oblastnoy bol'nitsy imeni Pirogova (nauchnyy rukovoditel' dotsent B.Z.Sukhorukov) i kafedra fakul'tetskoy khirurgii (zav. prof. I.M.Grabchenko) Vinnitskogo meditsinskogo instituta.

POLYARUSH, Ye.I.

Accumulation of sugar in sugar cane in the southern part of
Gentral Asia. Dokl. An Tadzh. SSR 1 no.2:57-60 '58.

(MIRA 12:1)

1.Predstavlene akademikem An Tadzhikskoy SSR V.P. Krasichkovym.

(Seviet Central Asia--Sugar cane)

SHTEYN, A.A., prof.; POLYASHOVA, T.I.

Leucocytic reaction as a prognostic index of the effectiveness of autohemotherapy. Vrach.delo no.12:79-81 D '62.

(MIRA 15:12)

1. Kafedra kozhnykh bolezney (zav. - prof. A.A.Shteyn)

L'vovskogo meditsinskogo instituta i L'vovskiy oblastnoy

L'vovskogo meditsinskogo instituta i L'vovskiy oblastnoy

protivovenerologicheskiy dispanser.

(LEUCOCYTES) (BLOOD AS FOOD OR MEDICINE)

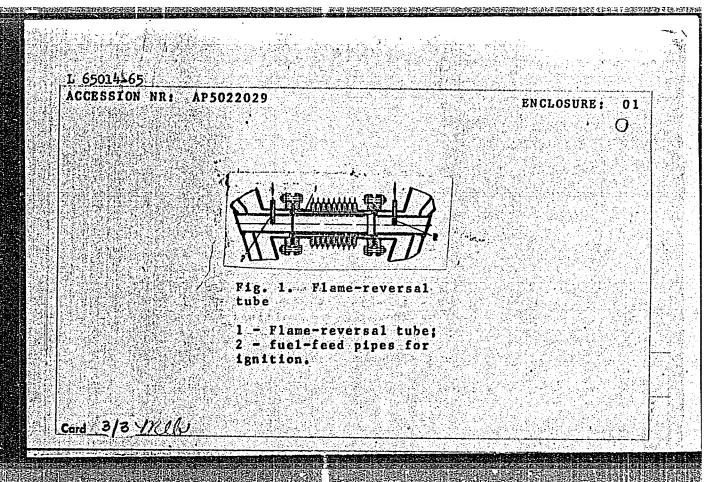
ACC NR: AP6006880 SOURCE CODE: PO/0046/65/010/008/0469/0476 AUTHOR: Polyatski, ZenonPolacki, Z.; Grodel', Mar'yanGrodel, M. ORG: Polytechnical Institute, Gdansk (Politekhnickeskiy institut) TITIE: Radioluminescence of styrenemethylmethacrylate copolymers SOURCE: Nukleonika, v. 10, no. 8, 1965, 469-476 TOPIC TAGS: radioluminescence, copolymer, styrene, methylmethacrylate, light emission ABSTRACT: The concentration dependence of the radioluminescence efficiency of ABSTRACT: The concentration dependence of the radioluminescence efficiency of also and the relative solutions of styrene in methylmethacrylate were studied before and after polymerization. Conclusions were drawn indirectly from the measurements of the relative solutions dependence of the radioluminescence with the measurements of the relative solutions as an admixture with unchanged concentration. With dilution of styrene solutions as an admixture with unchanged concentration. With dilution of styrene solutions by methylmethacrylate the radioluminescence intensity decreased, thus methylmethacrylate can be considered as absorbing substance causing the quenching of radio- crylate can be considered as absorbing substance causing the quenching of solutions of 80% styrene and 20% methylemthacrylate was equal to that of, polystyrene solutions. Of 80% styrene and 20% methylemthacrylate was equal to that of, polystyrene solutions of 80% styrene and 20% methylemthacrylate was equal to that of, polystyrene solutions. The authors thank Professor V. Moststiskly for the valuable advice and interest in this work. Further thanks is extended to I. Kachinskly for his active assistance in this work. Further thanks is extended to I. Kachinskly for his active assistance in the preparation of the solid solutions. Orig. art. has: 6 figures. [NA] SUBCODE: 07, 20 / SUBM DATE: 13Jul64 / ORIG REF: 004 / OTH REF: 012

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ATTENON	4955	621.438.001.5	
(Engineer); S	hati!, A. A. (Candidat	621.438.001.5 Idate of technical sciences); Tass, O. A. e of technical sciences)	154
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TOPIC TAGS:	gas turbine, combusti	on chamber	
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cone, and the o	thers having 4-mm gap	ns of the flame tube ID = 400 mm were s, one of them welded to a 90°-aperture os between them; (2) Two shells with a	
ard 1/2			

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AUTHOR: Svyatskiy, Z. M.;	Polyatskin, M. A.; Shul'man, V. L.
TITLE: Flame-reversal tube turbines. Class 46, No. 17	等 主的 形式中央 内部的工具的实工 的发生型也是整理的特殊的特殊的特殊。
SOURCE: Byulleten' izobret	eniy i tovarnykh znakov, no. 14, 1965, 99
TOPIC TAGS: flame reversal turbine component, flame tr	tube sections
creased efficiency and relig	cate has been issued for a flame-reversal on chamber for gas turbines. For in- ibility in flame transfer, the tube is con- pes to its internal cavity for ignition orige art, has: 1 figure.
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ACCESSION NR: AP5022029		O
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NO REP SOV: 000	OTHER: 000	ATD PRESS:



AVDEYEVA, A.A., inzh.; FOLYATSKIN, M.A., kand. tekhn. nauk

Accuracey of the determination of combustible components in combustion products. Elek. sta. 36 no.11:25-28 N '65. (MIRA 18:10)

POLYATSKIN, M.A.; SHATIL', A.A.; AFROSIMOVA, V.N.

Evaluating the completeness of the processes of mixing and combustion in a boiler furnace burning natural gas. Gaz.prom. 10 no.2:24-27 (MIRA 18:12)

POLYATSKIN, McA., kand.tekhn.nauk; SHATIL', A.A., kand.tekhn.nauk; POPOVA, A.M., inzh.

Use of e GST-L chromatographic gas analyzer for studying the combustion chambers of gas turbine systems. En regomashinostroenie 7 nc.4:26-28 Ap 161. (MIRA 14:7) (Gas turbines) (Gas—Analysis)

ACCESSION NR: APLO25418

s/0096/64/000/004/0022/0026

AUTHORS: Afrosimova, V. N. (Engineer); Polyatskin, N. A. (Candidate of technical sciences)

TITLE: Investigation of mixing in a cylindrical burner with a peripheral gas distribution

SQURCE: Teploenergetika, no. 4, 1964, 22-26

TOPIC TAGS: gas combustion chamber, cylindrical combustion chamber, peripheral gas injection, gas mixing

ARSTRACT: The mixing of gas introduced into a uniformly flowing air stream from a row of peripheral openings in a cylindrical combustion chamber was studied by using the equipment and method described by V. N. Afrosimova and N. A. Polyatskin ("Teploeenergetika" No. 9, 1963). The mixing effectiveness X =

(C_i = local concentration, C_{cr} = average concentration, \overline{F}_i = F_i/F_{tr} , F_i = area of the ith ring at which C_i is measured, F_{tr} = total area of combustion cyclinder) was Cord $1/l_i$

ACCESSION NR: AP4025418

measured for different values of $\bar{d}=d/D$, $\bar{\rho}^2 = \rho_g v_g^2/\rho_a v_a^2$, $\bar{x}=X/D$, $\bar{Q}=\frac{v_a}{v_g}$, $\bar{s}=s/d$ (d = diameter of gas orifices, D = diameter of chamber, ρ_g , ρ_a , v_g , v_a = densities and velocities of gas and air respectively, X = distance between gas injection and measuring section, Q_a , Q_g = air and gas flow, s = distance between gas orifices). It was found that the concentration x could be correlated by a single curve (for a given $\bar{v}=v_g/v_a$) if it were plotted against the parameter

 $\overline{h}_x = 2b_x \overline{d} \sqrt[3]{\frac{\overline{x}}{\overline{d}} (\overline{\rho v^2})^{1/2}}$

(where b_s is empirical constant which varies linearly between 0.7 - 0.95 as \bar{s} varies between 2 and 20). The graph so plotted as shown in Fig. 1 on the Enclosure (for $\bar{v}=3.h_X$) gives the depths to which the gas jet penetrates the air stream. It can be seen from Fig. 1 that \bar{x} is at a minimum (best mixing) at $\approx \bar{h}_{\bar{x}}=1$ or when the gas jets penetrate to the center of the air stream. Orig. art. has: 5 formulas, 5 figures, and 1 table.

Cord 2/4

ACCESSION NR: AP4025418

ASSOCIATION: Teentral'nywy kotloturbinnywy institut (Central Turbine Institute)

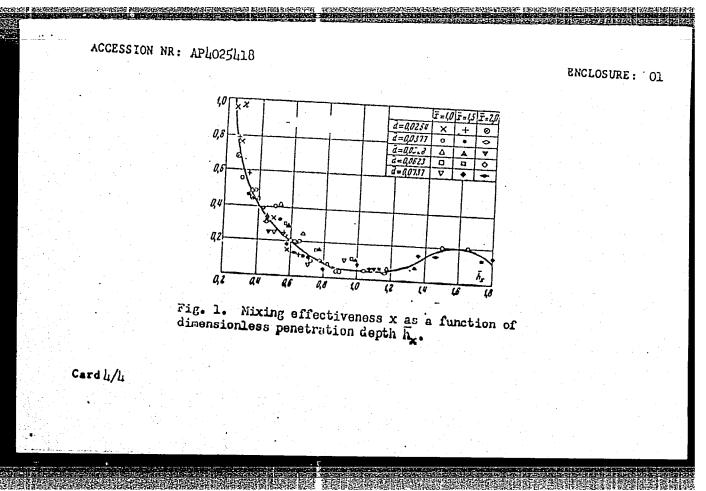
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OTHER: 000

Cord 3/4



AFROSIMOVA, V.N., inzh.; POLYATSKIN, M.A., kand. tekhn. nauk

Study of mixing in a model of a cylindrical burner with peripheral gas outflow. Teploenergetika ll no.4:22-26 Ap '64.

(MIRA 17:6)

1. TSentral'nyy kotloturbinnyy institut.

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001342020018-0

5/137/61/000/006/007/092 A005/A101

11.7430

Polyatskin, M.A., Volosova, L.L.

TITLE:

The process of mixture formation in gas torch devices

FERIODICAL: Referativnyy zhurmal. Metallurgiya, no. 6, 1961, 2, abstract 6R8 (V sb. "3-ye Vses. soveshchaniye po teorii goreniya, v. 2," Moscow. 1960, 238 - 249)

Models of almost natural size were employed to study the mixture formation in various torches. The gas was modelled by air, heated to 100-120°C. The nature of mixing was determined by measuring temperature fields. The degree of mixing of two gas flows depends considerably on the length of the mixing zone and increases rapidly with its extension in both a restricted and unrestricted space. Whirling of the air or the gas-air mixture with blade paddles (lapatochnyy registr) in torches with central or peripheral gas feed does not increase the degree of mixing, but, on the contrary, impairs the mixing process. An increase of the whirling angle from 45 to 60° causes greater non-uniformity of the gas con-

Card 1/2

CIA-RDP86-00513R001342020018-0" **APPROVED FOR RELEASE: 07/13/2001**

25418 8/137/61/000/006/007/092 A006/A101

The process of mixture formation in gas torch devices

centration field in the mixture. Whirling of a gas-air mixture improves slightly the mixing process as compared with the whirling of merely an air flow.

G. Glinkov

[Abstracter's note: Complete translation]

X

Card 2/2

AFROSIMOVA, V.N., inzh.; POLYATSKIN, M.A., kand. tekhn. nauk

Study of carburetion in a cylindrical model of a peripheral gas burner. Teploenergetika 10 no.9:26=29 S '63. (MIRA 16:10)

1. TSentral'nyy kotloturbinnyy institut. (Gas burners)

POLYATSKIN, M.A., kand.tekhn.nauk; SHATIL', A.A., kand.tekhn.nauk; KHAYNOVSKIY, Ya.S.; MURASHKO, V.D.

Study of combustion and heat exchange processes in the combustion chamber of a gas turbine system operating on natural gas. Energ. i elektrotekh. prom. no.3:25-30 Jl-S '63. (MIRA 16:10)

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FOLVATSKIN, M.A., kand.tekhn.nauk; SHATIL', A.A.; KHAYNOVSKIY, Ya.S., inzh.

EAEKIN, V.M., inzh.

Torch tips for burning natural gas in the combustion chambers of gas turbine systems. Energomashinostroenie 7 no.7:34-36 Jl

'61. (Gas turbines)

(Gas turbines)

ACC NRI	AP6017742	SOURCE CODE: UR/0096/66/000/002/0047/005
AUTHOR: Shatil',	Polyatskin, M. A. (Cand A. A. (Candidate of ted	idate of technical sciences); <u>Tass, O. A.</u> (Engineer);
ORG: Cei	ntral Steam Turbine Inst	titute (Tsentral'nyy kotloturbinnyy institut)
	Investigation of combine	ed cooling in the combustion chamber of a gas turbine
SOURCE:	Teploenergetika, no. 2,	1966, 47-51
ARSTRACT: gation chamber of heat local hour toward peratur locatio applied present for metal	of combined cooling of a gas turbine at flow on burning remeat exchange coeffindary cooling on the the flame are invested fields, as well at and other regime field in the article of	sented from an experimental investi- of the flame tube in the combustion pparatus burning gas. The dependence gime parameters is investigated. The cients in the ring channel and nature inside of the flame tube directed tigated. Graphs of velocity and tem- s of the temperatures present at various nt of internal and external cooling actors, are presented. The dependence an be used for approximate calculation such an installation. Orig. art. has: 6 figures
UB CODE:	: 13 / SUBM DATE: no	ne / ORIG REF: 010

L 20190_66 EWP(f)/EPF(n)-2/T-2/ETC(m)-6 WJ/JW/WE AP6004171 (N) SOURCE CODE: UR/0096/66/000/002/0047/0051 75

AUTHOR: Polyatskin, M. A. (Candidate of technical sciences); Tass, O. A. (Engineer); Shatil, A. A. (Candidate of technical sciences)

ORG: Central Boiler and Turbine Institute (Tsentral'nyy Kotloturbinnyy Institut)

TITLE: Investigation of the combined cooling of a gas-turbine combustion chamber

SOURCE: Teploenergetika, no. 2, 1966, 47-51

TOPIC TAGS: combustion chamber, flame tube, gas turbine, heat transfer

ABSTRACT: Combined internal and external cooling of the flame tube of a gas turbine combustion chamber was investigated experimentally using both a telescopic flame tube and a flame tube with a single slit, 17 mm wide, with swirl vanes. Measurements were made of the gas and air flow rates, distribution of the temperature and flow velocities along the radius, and the pressure drop along the combustion chamber. The obtained results indicate that the major portion of the heat from the flame tube is removed by external cooling, i.e., by the air flow through the annular duct of the commoved by external cooling, i.e., by the air flow through the annular duct of the combustion chamber. The use of a single slit with swirl vanes increases the heat transfer coefficient and considerably reduces the flame tube wall temperature. It is noted for coefficient and considerably reduces the flame tube wall temperature. It is noted that the reduction in temperature can also be achieved by using longitudinal or transtat that the reduction in temperature can also be achieved by using longitudinal or transtat that the obtained relationship for convective heat transfer can be used for

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UDC: 621.438.621.43.056

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approxima similar	ate calculations o design. Orig. art	f the flame tube wa . has: 6 figures a	all temperature and 2 formulas.	in combustion	chambers [A
SUB CODE:	: 21/ SUBM DATE:	none/ ORIG REF:	009/ ATD PRE	SS: 4215	•
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EPF(n)=2/EWT(d)/EWT(m)/ETC(m)=6/T/EWP(f) WW/WE <u>1-22292-66</u> UR/0096/66/000/004/0043/0048 ACC NRI AP6009813 AUTHOR: Polyatskin, M.A. (Candidate of technical sciences); Shatil', & A.A. (Candidate of technical sciences); Khaynovskiy, Ya.S. (Candidate of В technical sciences); Murashko, V.D. (Engineer); Miroshnichenko, V.I. (Engineer) ORG: TSKTI; KhTGZ TITLE: Mixing and combustion processes in the combustion chamber of a gas turbine installation SOURCE: Teploenergetika, no.4, 1966, 43-48 TOPIC TAGS: gas turbine engine, combustion chamber test, acrodynamic needs, natural yes, combuston mechanism, flow structure
ABSTRACT: The article reports the results of aerodynamic investigations of an experimental combustion chamber with three different types of burners. The measurements were made with a three channel cylindrical water cooled probe, at sections located at relative distances L/D from the burner equal to 0.48, 1.1, 1.72, and 2.2 (D is the diameter of the chamber). The fuel was natural gas. Data on the axial mass velocities and the composition of the products of combustion make it possible to establish the distribution of the mass velocities of the fuel being fed over the cross section of the chamber. Calculation of the local values of the mass velocities of the fuel was carried out with the approximate formula: UDC: 621.438.621.43.056.001.5 Card 1/2

L 22292-66 ACC NR: AP6009813
$B_i = \frac{w_i p_i}{L_i \alpha_i}, \kappa z / \mu^* \cdot c e \kappa_i \tag{1}$
where w_1 and ρ_1 are the local velocity and density of the gas; α_i are the local values of the excess air coefficients; L_0 is the stoichiometric coefficient (for the gas used, $L_0=16.4~{\rm kg/kg}$). The experimental form of the flame in the combustion chamber is illustrated in a series of figures. Other figures show the schematic mixing picture in the combustion chamber. In general, the experimental results indicate that
in the combustion the main mechanism is convective transfer which, in turn, is determined by the aerodynamic structure of the flow. Orig. a has: 5 formulas and 7 figures.
turn, is determined by the aerodynamic structure of the flow. Orig. a
turn, is determined by the aerodynamic structure of the flow. Orig. a has: 5 formulas and 7 figures.

POLYATSKIN, M.A., kand.tekhn.nauk; SHATIL', A.A., kand.tekhn.nauk; KHAYNOVSKOY, Ya.S., inzh.; SEKUNDA, A.T., inzh.

Testing the experimental GTU-50-800 combustion chamber fired with natural gas. Teploenergetika 9 no.1:20-24 Ja '62.

(MIRA 14:12)

l. TSentral nyy kotloturbinnyy institut im. I.I.Polzunova i Khar kovskiy turbinnyy zavod imeni Kirova. (Gas turbines—Testing) (Gas, Natural)

SOV/96-59-2-5/18

AUTHORS: Polyatskin, M.A., Candidate of Technical Sciences

Svyatskiy, Z.M., Candidate of Technical Sciences

TITIE: A Highly Rated Gas Turbine Combustion Chamber for

Medium and Heavy Liquid Fuels (Vysokoforsirovannaya kamera sgoraniya gtu dlya srednikh i tyazhelykh

zhidkikh topliv)

PERIODICAL: Teploenergetika, 1959. Nr 2. pp 33-39 (USSR)

ABSTRACT: This article gives the results of adjustment and investigation of a highly rated combustion chamber

operating on gas oil, diesel fuel and fuel oil

Grade F.-12. It was required to develop a combustion chamber which could operate on medium and heavy liquid fuels at ratings of 4 x 10⁶ to 13 x 10⁶kcal/m²hour atm at a pressure of 3-5 atm, an air temperature of 160 to 230°C, outlet gas temperatures of [450 to 750°C; with a

230°C, outlet gas temperatures of [450 to 750°C; with a combustion efficiency of 98%. A simple sectional drawing of the combustion chamber is given in Fig 1 and its construction is briefly described. The

dimensions of the swirler and of the annular gap

Card 1/9 between the body of the chamber and the flame tube were

SOV/96--59--2--5/18

A Highly Rated Gas Turbine Combustion Chamber for Medium and Heavy Inquid Fuels

chosen to give an air speed in them of about 40 to 50 m/sec under normal conditions. The fuel was atomised by a nozzle fitted in the centre of the swirler. The arrangements made to measure the experimental conditions are described. The combustion chamber aerodynamics were studied in some detail on mcdels and full scale examples. The gas velocity distribution in the combustion chamber is described and graphs are plotted in Fig 2. A special feature of the velocity distribution with the conical swirler used is that there is a central flow of air towards the swirler, that is, in the opposite direction to the main flow. This carries hot gas to the base of the flame, improving its stability and heating the fuel. The flame did not break away from the swirler, even when the amount of air supplied was more than 10 to 15 times that required for combustion. The reverse gas flow was highest with high air speeds at outlet from the swirler and high angles of swirl. Consideration of the air and fuel flows, on the basis of the curves given in Fig 2, indicates

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that they are mixed continuously over the length of the swirler and particularly towards the cutlet. With this type of conical swirler the high axial velocity gradients ensure mixture formation and combustion of medium and heavy fuel over a comparatively short length of the combustion chamber. Operating tests on a fullscale combustion chamber showed that the total hydraulic losses of the chamber are 4 to 5% of the available head at the inlet to the combustion chamber. If the blade angles in the swirler are reduced and the air speed is cut down the hydraulic losses can be reduced to 3 to 3.5%. Burner tests were made with gas oil, diesel fuel and heavy fuel cil grade F-12 of viscosity 2.7 degrees Engler at 75°C and 1.8° Engler at 100°C. The fuel oil was heated to a temperature of 70 to 100°C before burning but the other fuels were not heated. The main properties of the fuels are stated. With the lighter fuels the volumetric loading on the chamber lay in the range 5×10^6 to 18×10^6 kcal/m3hour atm.

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501/96-59-2-5/18

A Highly Rated Gas Turbine Combustion Chamber for Medium and Heavy Liquid Fuels

The combustion chamber operated stably with the excess air factor in the flame tube within the range 1.3 to 2.5. The absence of incomplete combustion products near the end of the chamber shows that there is still some possibility of increasing the thermal loading at the given pressure and volume. It will be seen from the gas analysis curves given in Fig 3 that products of incomplete combustion were not observed under any conditions. It will be noticed that the excess air factors are uniform over the entire central section of the flame tube when the conical swirler is used and this promotes complete combustion of the fuel. This shows that one of the main disadvantages of the flat swirler, such as is illustrated in Fig 4, has been overcome. The most difficult operating conditions occurred at light loads. When the combustion chamber with conical swirler operated with outlet gas temperatures of 460°C and less the mean excess air factor in the volume of the flame tube reached 2.5. With a pressure of 35 atm on the nozzle 43% of the fuel was in drops of

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507/96--59-2--5/18

A Highly Rated Gas Turbine Combustion Chamber for Medium and Heavy Liquid Fuels

100 to 180 microns. However, combustion remained very satisfactory, there was no coke formation or smoking. For the tests on fuel-oil minor modifications were made to the combustion chamber and the test conditions are given. With fuel oil also combustion was completed in the first section of the chamber and the gas analysis curves given in Fig 3 show that combustion was complete in all the tests. However, in the fuel cil tests there were some losses because of mechanical under-combustion with coke formation. The gas temperature at the central part of the end of the combustion chamber near the mixers reached 1,400°C on full load tests. After the tests the whole chamber was clean except for a thin layer of soct on the cone of the flame tube and very light deposits on the outlet edges of the swirler. In later tests, the first slot delivering air to the flame tube immediately beyond the conical part was fully closed. This caused some reduction of the amount of excess primary air and consequently increased the gas

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temperature on the periphery of the active combustion zone. This is particularly important because large particles of fuel reaching the periphery of the chamber where the gas flow temperature is comparatively low (360 to 500°C) tended to remain there, see temperature distribution curve, Fig 5. This impaired combustion led to coke and soot formation. Combustion remained chemically complete even with the first slot closed. Variations in the excess air factor over the length of the flame tube are plotted in Fig 6. At light loads the excess air factor in the active combustion zone increased to about 1.5 and before the mixer to about 2.1 which shows that fuel oil grade F-12 can be burnt in this type of combustion chamber intended for burning medium fuels. However, it is necessary to ensure that the combustion temperature is 1,100°C and higher under all conditions of operation and to ensure this the excess air factor in the central sections of the flame tube should not be greater than 2.0 to 2.1 at light loads. Operating conditions of the metal in the

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combustion chamber are then considered. Temperature conditions are most severe in the flame tube and the factors that influence flame tube temperature are discussed. Curves of the metal temperature in the flame tube are given in Fig 7 from which it will be seen that with an incoming air temperature of 165°C and an outlet gas temperature of 670°C the flame tube does not exceed 520°C. When the outgoing gas temperature is raised to 730°C and the air temperature to 230°C the temperature of the flame tube wall does not exceed 600°C. Under these conditions the primary excess air factor ranged from 1.7 to 1.92. Measurements showed that the temperature of the flame tube wall does not vary much over the length but in some tests it varied over the perimeter. This probably resulted from uneven distribution of air round the annular slot of the chamber. The influence of the type of fuel on the flame tube temperature was investigated and on changing from gas oil to fuel oil the maximum temperature of the flame

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tube rose from 500 to 600°C to 600 - 690°C. A curve of the maximum mean temperature of the flame tube as function of the mass air speed in the annular gap of the chamber is given in Fig 8. Over the air speed range of 20 to 45 kg sec/m² the flame tube temperature ranged from 420 to 470°C. In these tests the flame temperature ranged from 1240 to 1460°C and the air temperature from 150 to 220°C. It will be seen from the results given in Fig 9 that the temperature of the outer frame of the combustion chamber depends mainly on the air temperature and for example, with air temperature of 70°C the frame temperature does not exceed 120°C whilst with an air temperature of 160°C the wall temperature is 170°C and with the greatest air temperature of 230°C the frame temperature is 250°C. It is concluded that combustion chambers of this design can be used for gas turbines covering a wide range of outputs by altering the number and size of the chambers.

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SOV/96--59--2--5/18

A Highly Rated Gas Turbine Combustion Chamber for Medium and Heavy Liquid Fuels

This design of chamber is also suitable for burning natural gas. There are 9 figures.

ASSOCIATION: Tsentral 'nyy Kotloturbinnyy Institut (Central Boiler Turbine Institute)

Card 9/9

POLYATSKIN, M.A., kand.tekhn.nauk; SHATIL', A.A., kand.tekhn.nauk; KHAYNOVSKIY, Ya.S., inzh.; BABKIN, V.N., inzh.

Certain data on heat exchange in the combustion chamber of a gas turbine system operating on natural gas. Teploenergetika 8 no.7: 68-72 Jl '61. (MIRA 14:9)

1. TSentral'nyy nauchno-issledovatel'skiy kotloturbinnyy institut imoni I.I. Polzunova i Khar'kovskiy turbogeneratornyy zavod.

(Gas turbines) (Heat--Transmission)

23464

S/114/61/000/007/003/003 E194/E455

26.2130

AUTHORS:

Polyatskin, M.A., Candidate of Technical Sciences, Shatil', A.A., Khaynovskiy, Ya.S., Engineer and

Babkin, V.N., Engineer

Natural gas burners for gas-turbine combustion chambers TITLE:

PERIODICAL: Energomashinostroyeniye, 1961, No.7, pp.34-36

In designing the combustion chamber for a gas turbine type PTY-50-800 (GTU-50-800) burning natural gas, insufficient information was available about burner design. Accordingly, TsKTI and KhTGZ made a joint investigation of burners in an experimental combustion chamber which was described in an article by M.Polyatskin and Z.M.Svyatskiy in Teploenergetika, 1959, No.2. The main object was not so much to find the best burner for burning natural gas as to study the main features of certain very Accordingly, besides studying completedifferent types of burner. ness of combustion, an attempt was made to study the influence of the burner design on flame structure. As the process of mixing gas with air governs burner operation, three types of burner, illustrated in Fig.2, were tested. The first of these (Fig.2a) Card 1/4

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S/114/61/000/007/003/003 E194/E455

Natural gas burners ..

uses a conical swirler, which allows preliminary mixing of gas and The second (Fig. 2b) has a flat swirler with hollow blades, gas being delivered through holes in the blade; it allows only partial mixing of fuel and air in the burner. the third type (Fig. 2B) the gas and air are mixed in the actual combustion chamber. A number of variants on these basic designs The usual kinds of measurements were made and, in addition, gas samples were taken for analysis at various places in the flame tube and measurements were made of the gas temperature. Curves of completeness of combustion and of temperature distribution were plotted and the influence of various minor design modifications on the performance were studied with such With natural gas, combustion was most complete with the burner with conical swirler but it could operate only over a narrow The burner with flat swirler with the range of excess-air factor. gas delivered through hollow blades was more stable, particularly when there was no preliminary mixing of gas and air. temperature distribution and gas analysis distribution were made with various design modifications and, in general, the following Card 2/4

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POLYATSKIN, M.A.; YUDIN, V.F.

Inertness of the process of solid fuel gasification in a bed. Gaz. prom.
no.10:18-21 0 58.

(MIRA 11:11)

(Coal gasification)

11093-66 ACC NR. AT5016897	SOURCE CODE:	UR/0000/64/000/000/0432/0439
UTHOR: Polyatskin, M. A.; Tass	, 0. A.	77
)RG: none 74,55	4412	77 R+1
TITLE: Intensification of conve	21.44.55 ctive heat transfer in	the combustion chamber of a
SOURCE: Konvektivnaya teplopere neat transfer in two-phase and s 132-439	dacha v dvukhfaznom i o ingle-phase flows). Mo	dnofaznom potokakh (Convective scow, Izd-vo Energiya, 1964,
TOPIC TAGS: heat transfer, conv		0.7
ABSTRACT: The lowering of metal tubes is studied. Two simple at tubes—the establishment of transurface with a swirling current combustion chambers for gas fuel for maximum heat transfer in cir	sverse fins on the tube are used. Designs for a are discussed. The coulant flame tubes is de	e surface and washing the tube flame tubes and experimental optimum spacing of ribbed fins etermined. Heat transfer is al
so increased through the use of the ribbing were found to be in	anaga mibbing. Pressur	Le Tosses fo literiou gegrine
1/2 Card		

POLYATSKIY, M.A., kand.tekhn.nauk; SVYATSKIY, Z.M., kand.tekhn.nauk

Highly forced combustion chamber for average and heavy liquid fuels in gas turbine installations. Teploenergetika 6 no.2:33-39 F '59.

(MIRA 12:3)

1. TSentral nyy kotloturbinnyy inatitut.

(Gas turbines)

POLYANTSEV, V. A.

Cand Med Sci - (diss) "Study of the interaction of unconditioned reactions on the level of reticular formation of the brain stem."

Moscow, 1961. 20 pp; (Ryazan' Med Inst imeni Academician Med Inst imeni Academician I. P. Pavlov); 200 copies; price not given; (KL, 7-61 sup, 261)

POLYATSKIY, V. 7.

Call Nr: AF 1108825
Transactions of the Third All-union Mathematical Congress (Cont.) Moscow, Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp. Povolotskiy, A. I. (Leningrad). On the Structure of Spectrum of Nonlinear Equation.

Polyatskiy, V. T. (Odessa). Reduction of Quasiumitary Operators to Triangular Forms.

119-120

Mention is made of Livshits, M. S.

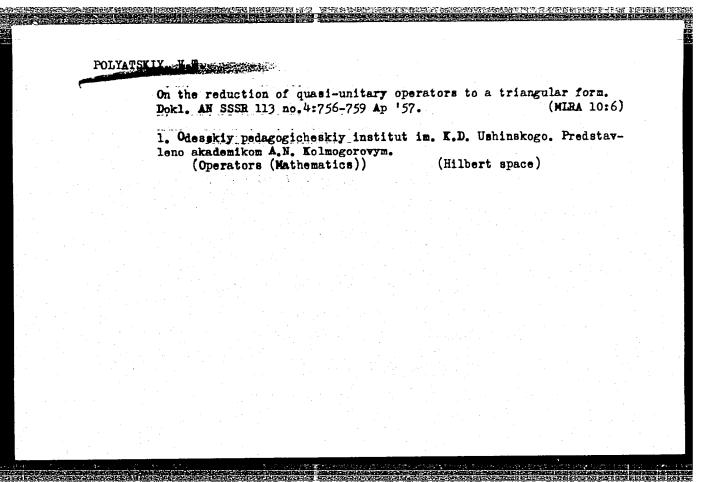
Sakhnovich, L. A. (Odessa). On the Reduction of Non-self-conjugate Operators to Diagonal Form.

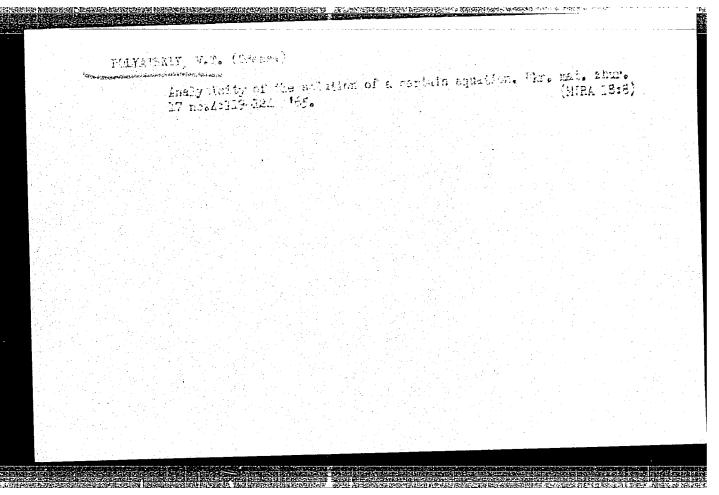
Mention is made of Keldysh, M. V., Tamarkin, Ya. D. and Naymark, M. A.

There are 6 references, 5 of which are USSR, and 1 is English.

Kharazov, D. F. (Tbilisi). Linear Equations With Completely Continuous Operators, Which are Polynomially Dependent on Parameters.

Card 38/80





POLYATSKIN, M. A., (Cand. Tech. Sci.), BURGVITS, G. A. (Eng.)

"Testing the High-capacity Combustion of Blast-furnace Gas"

(Theory and Practice of Gas Combustion; Transactions of a Scientific and Technical Meeting) Leningrad, Gostoptekhizdat, 1958. 343 p.

POLYATSKIN, M.A.; YUDIN, V.F.

Studying the gasification of anthracite and coke dust with steam and air injection. Gaz. prom. no.8:8-12 Ag '58.

(Coal gasification) (Coke)

POLYATSKINA, B. M.

"Effect of Solvents and Temperature on the Copolymerization Constants of Vinylacetate and Monomethylmaleate, " Zhur. Prik. Khim., 24, No. 3, 1951. Chair Plastics, Leningrad Tech. Inst. Lensovet, -c1951-.

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POLYATSKINA, B. M		
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Application of newer methods tudy to copolymerization of vinyl acetate with the maleates. Khim. i Fiz. Khim. Vysokomolekul. Soedineniy, Doklady 7-oy Konf. Vysokomolekul. Soedineniyam 152, 19-27. (MLRA 5:7)

(CA 47 no.15:7820 '53)

POLYATSKINA, B. M.

USSR/Chemistry - Synthetic Resins and Elastomers

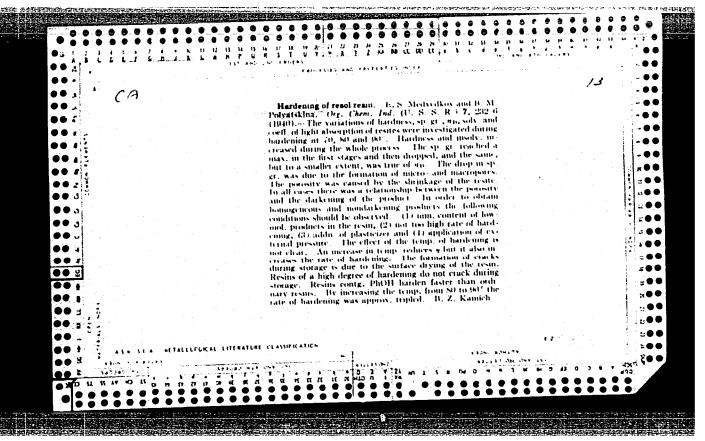
Mar 51

"Effect of Solvents and Temperature on the Copolymerization Constants of Vinylacetate and Monomethylmaleate," S. N. Ushakov, S. P. Mitsengendler, B. M. Polyatskina, Chair of Plastics, Leningrad Tech Inst Imeni Lensovet

"Zhur Prik Khim" Vol XXIV, No 3, pp 289-295

Examd effects of solvents and temp on const o and u of copolymerication of vinylacetate and monomethylmaleate. Found no change of const in presence of solvents. As to temp, found both const approximately doubled between 56 and 78°C, but temp actually had small effect on compn of copolymers.

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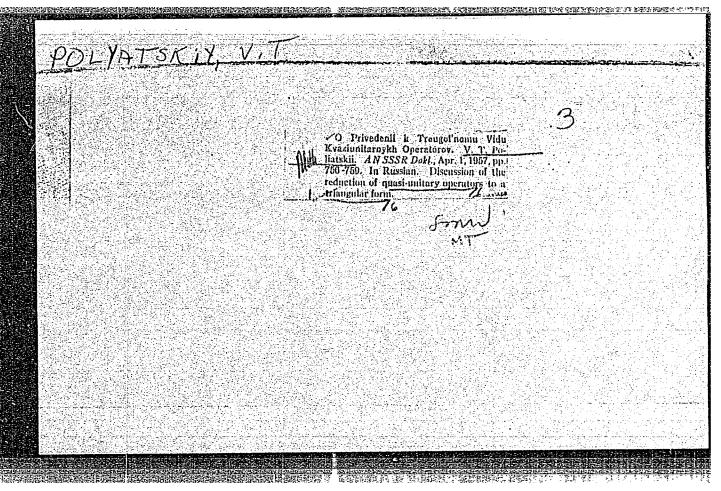


13 am Foundry Practice and Appliances

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Alloys for Pressure Dis-Castans, V. M. Polyatskiy (Optiles Mohless, Press, (Optiles Mohless, Press, 1998, (1), 80; (Optiles Mohless, 1998, (1), 80; (Optiles Mohless,

decrease the planticity of the alloys. Special attention must be given to removing Al₂0₃ from the alloys and to the content of FeO, which should not exceed 0.6%. The most suitable conner alloys are those that are not high-melting and possess good casting properties; they contain zinc 18, silicon 1.8-2.0, and aluminum 5%. These alloys have a tensile strength of about 30 kg. mm., and aluminum 5%. These alloys have a tensile strength of about 30 kg. mm., so most suitable, owing to their specific properties, but are not videly used for most suitable, owing to their specific properties, but are not videly used for the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of various apparatus owing to their high sp. gr., corrosive the production of apparatus owing to their high sp. gr., corrosive the prod



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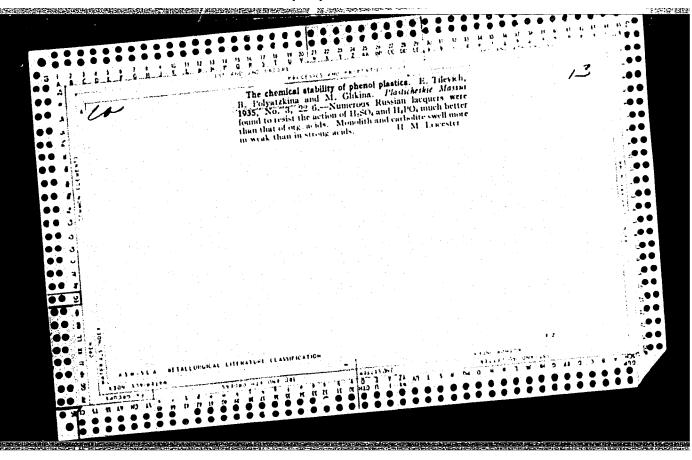
POLYATSKIY V.T. On the Reduction of the Quasiunitary Operators to the Triangular. **AUTHOR** (O privedenii k treugolinomu vidu kvaziunitarnykh operatorov -Russian) TITLE Doklady Akademii Nauk SSSR, 1957, Vol 113, Hr 4, pp 756-759 (U.S.J.H.) Reviewed 7/1957 PERIODICAL Received 6/1957 The quasiunitary operators discussed here are defined in HILBERT'S space H. The operator T defined in the HILBERT space is quasi-unitary in ABSTRACT that case, in which the operators I-T'T and I-TT are finitely dimensional. The quasiunitary operators T investigated here satisfy the following conditions: 1) Dim (I-T*T) Dim(I-TT*); 2) At least one point {0, | fo | < 1, exists, which is regular for the resulvents of the operator T. Next, the author gives some more definitions. The maximum subspace $m_{\pi} \in G_{\pi}$, which is

ditional component of the operator T. If $\mathcal{M}_T=0$ holds, the quasi-unitary operator is described as being simple. The additional component is identical with the orthogonal supplement of the linear closed shell $T^{*k}D_{T}$ (k=0,+1,+2,...). When examining the orthonormed bases $\{e_k\}$, $\{e_k^{*l}\}$ (k= 1,2,..., \bar{r}), the matrix function $W_T(\{\}) = ||W(\{\})e_ke_j)||^T k, j=1$

invariant with respect to T, is here described by the authors as an ad-

is introduced which is here a normed characteristic matrix function of the quasiunitary operator. For $w_{T}(\{\})$ an additional equivalent form is explicit-The author next costructs the triangular model T of a quasiunitary operator

Card 1/2



5/145/60/000/005/010/010 D221/D301 V.M. Polyayev, Candidate of Technical Sciences 10.3200 Experimental investigation of the flow of the evaporating liquid film on the surface of a cone in a 26.2181 AUTHOR: Izvestiya vysshikh uchebnykh zavedeniy. Mashinostroygas stream TITLE: eniye, no. 5, 1960, 140 - 148 The author considers the protection of a hot wall by TEAT:
a liquid film at its surface. The economy of this method depends on the adherence of the film to the surface. The quantity of heat raising the a liquid llim at its surface. The economy of this method depends on the adherence of the film to the surface. The quantity of heat raising the adherence of the film in a unit of time in an element dx (between temperature of the folim in a surface) is two sections of the conical surface) PERIODICAL: $d Q_2 = G_x C_f d \frac{\Theta_b + \Theta_x}{2}$ where G is the flow of liquid in the element, in kg/sec; G is the temperature specific heat of the liquid, in Kcal/kg.degrees; G is the temperature Card 1/4

CIA-RDP86-00513R001342020018-0" **APPROVED FOR RELEASE: 07/13/2001**

S/145/60/000/005/010/010
Experimental investigation ... D221/D301
ASSOCIATION: MVTU im. Baumana (MVTU im Bauman)
SUBMITTED: March 16, 1960

Card 4/4

Experimental investigation of evaporation cooling of the surface of a porous cone in a high-temperature gas flow. Izv.vys.ucheb.zav.; mashinostr. no.7:149-160 '60. (MIRA 13:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana. (Cooling)

POLYAYEV, Vladimir Mikhaylovich; Chemov, Vsevolod Aleksandrovich

[Enthalpy-entropy diagrams for the combustion of a hydrocarbon fuel in air; manual]Diagrammy ental'piia-entropiia dlia sgoraniia s vozdukhom uglevodorodnogo goriuchego; uchebnoe posobie. Moskva, Izd.MVTU, 1961. 16 p. tables, diagrs.

(MIRA 15:8)

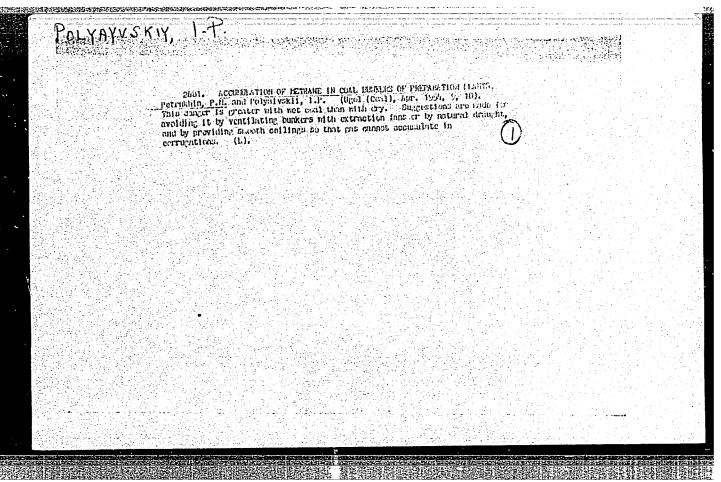
(Combustion) (Hydrocarbons)

POLYAYEV, V.M., kand.tekhn.nauk, dotsent; BASHMAKOV, I.V., inzh.

Calculating turbulent boundary layer in supplying coolant through a porous wall. Izv.vys.ucheb.zav.; mashinostr. no.11:118-128 '61. (MIRA 14:12)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. N.E.Baumana. (Boundary layer)

MJW/JD/HW/JG IJP(c) EWP(k)/EWT(m)/EWP(e)/EWP(t)/ETI 1 07435-67 ACC NR: AP6029223 SOURCE CODE: UR/0145/66/000/004/0151/0156 AUTHOR: Malin, A. P. (Engineer); Sukhov, A. V. (Aspirant); (Engineer); Polyayev, V. M. (Candidate of technical sciences); Borok, B. A. of technical sciences) ORG: None TITLE: Development of technology for producing porous fittings IVUZ. Mashinostroyeniye, no. 4, 1966, 151-156 TOPIC TAGS: porous metal, powder metallurgy, hydrostatic pressure, nichrome alloy, stainless steel ABSTRACT: The article is a summary of work on the production of porous pipes chrome, molybdenum, stainless steel and nickel by powder metallurgy methods. The best materials for this purpose are Kh80N20 nichrome powder produced by joint reduction, or a mixture of GNKh5-18-NP pickel and TsNIIChm TU 1-53 chromium powders. Experiments on development of technology for manufacturing porous fittings from these metal powders showed that pipe sections with a wall thickness from 15 to 0.5 mm may be produced by hydrostatic pressing and sintering in hydrogen furnaces. This method may be used for. producing porous fittings with a height which is limited only by the dimensions of the hydrostatic press and the sintering furnace with theoretically unlimited possibilities Card 1/2 UDC: 621.9-496



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POLYATSKIY, V. T., Cand Phys-Math Sci -- (diss) "Reduction of some non-unitary operators to triangular form." Kiev, 1960. 10 pp; (Joint Academic Council of the Inst's of Mathematics, Physics, and Metallophysics of the Academy of Sciences Ukrainian SSR); 150 copies; price not given; bibliography at end of text (10 entries); (KL, 27-60, 148)

POLYBOYARINOV, D.N.; GUZMAN, I.Ya.; NISHANOVA, I.Ye.

Structure and certain properties of porous, ZrO2-base ceramics.

Trudy MKHTI no.37:166-179 '62. (MIRA 16:12)

POLYBOYNK, THER, D.N.

BUDNIKOV, Petr Petrovich; redaktor; BEREZHNOY, Anatoliy Semenovich;
BULAVIN, Ivan Anisimovich; GRISSIK, Boris Mikhaylovich;
KUKOLEV, Grigoriy Vladimirovich; POLYBOYARINOV, Dmitriy
Mikolayevich; AVGUSTINIK, A.I., doktor tekhnicheskikh nauk,
professor, retsenzent; GLEZAROVA, I.L., redaktor; PANOVA, L.Ya.,
tekhnicheskiy redaktor.

[Technology of ceramics and refractory materials] Tekhnologiia keramiki i ogneuporov. Pod obshchei red. P.P. Budnikova. Izd. 2-e, perer. Moskva, Gos.izd-vo lit-ry po stroit. materialam. 1955. 698 p. (MLRA 8:12)

 Deystvitel nyy chlen AN USSR. 2. Chlen korrespondent AN SSSR. (Ceramic industries) (Refractory materials)

SOV-128-58-9-12/16

AUTHORS:

Moskovtsev, F.I., Polychalov, Yu.M., Verkhoshapov, A.I., Redenskiy, V.A., Kul'bitskaya, A.Ta., Dvali, G.S., Fomin,

S.F., Ebralidze, L.I., Shkundin, R.M.

TITLE:

Letters to the Editor (Nam pishut)

PERIODICAL:

Liteynoye proizvodstvo, 1958, Nr 9, pp 23-24 (USSR)

ABSTRACT:

In the letters, an improved hammer head for pile-drivers is described and a device for preventing the sticking of molding matter by compressed air. Hethods of casting the ball bearing of the refrigerating compressor type ChAU-8 by centrifugal power, to produce distributing plates for foundry heads from quartz sand, and to charge the blast

apparatus with metal shot, are also described.

There are 5 diagrams.

1. Pile drivers--Equipment 2. Molding materials--Performance

3. Compressed air--Applications 4. Ball bearings--Casting

5. Sand--Applications 6. Quartz--Applications 7. Shot blasting

---Equipment

Card 1/1

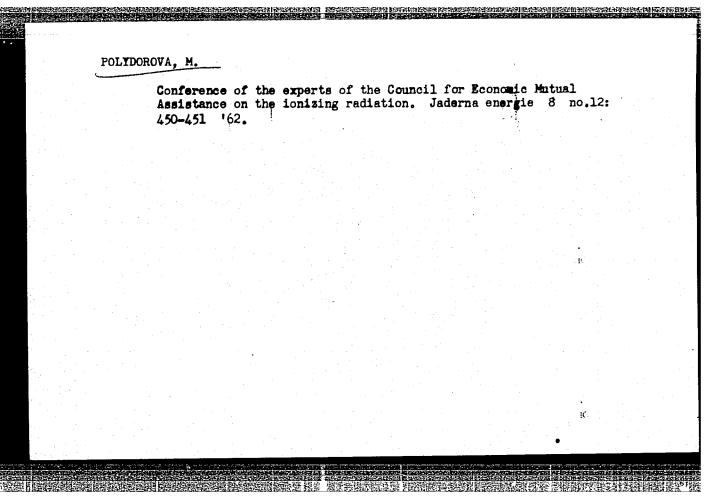
POLYCHALOV, Yu.M.									
	Device proizv.	to avoid no.9:24 (Sand, F	bridging S 158. oundry)	of foundry (Pneumatic	sands in tools)	hoppers	. Lit. (MIRA 11:	10)	
									· .

POLYDOR, J.

"Z. Vitamvas and R. Svoboda's <u>Elektronicke hudebni nastroje</u> (<u>Electronic Musical</u> Instruments); a book review. (Supplement)" p. L19.

SLABOPROUDY OBZOR. (MINISTERSTVO PRESNEHO STROJIRENSTVI, MINISTERSTVO SPOJU A VEDECKA TECHNICKA SPOLECNOST PRO ELEKTROTECHNIKU PRI CSAV.) Praha, Czechoslovakia, Vol. 20, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959. Uncl.



Sampling of finely dispersed aerosols for electron microscopy.

Chem listy 58 no. 3:312-314 Mr '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.